



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
5	Steel	Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	RMC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	87.48	10	10
7	RCC(M20)	Compressive Strength(7days and 28days)	3 set /150-200 Sqm	188.82	6	6

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-08-20-45 Date: 03-02-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-01-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 01-02-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.64	—
2	Fineness by Air permeability method (m ² /kg.Min)	298.5	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-08-20-45 Date: 29-02-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-01-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 01-02-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-08-20-45 Date: 03-02-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 31-01-20

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 31-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	588	588	3.9	96.1	90-100
3	20 mm	4899	5487	36.6	63.4	30-70
4	10 mm	7142	12629	84.2	15.8	10-35
5	4.75 mm	2119	14748	98.3	1.7	0-5
6	Pan	252	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-08-20-45

Date: 03-02-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.41	—
5	Bulk Density(Compacted) (Kg/l)	1.46	—
6	Water Absorption(%)	0.39	—

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-08-20-45 Date: 03-02-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer Reference : BBMP/EE/BTP/WO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-01-20
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 31-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3151	3350	67.0	33.0	25-55
4	4.75 mm	1456	4806	96.1	3.9	0-10
5	Pan	194	5000	100	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2020-08-20-45

Date: 03-02-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.45	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.28	—
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-08-20-45 Date: 03-02-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08
Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-01-20
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 31-01-20

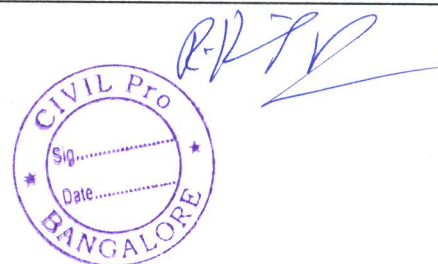
Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-08-20-45

Date: 03-02-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.62	—
2	Specific Gravity	2.53	—
3	Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID : CP-2020-08-20-45 Date: 01-02-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08
Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 31-01-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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End of Report



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 Date: 15/02/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	08/02/2020	15/02/2020	149.05 X	22277	8.328	422.4	19.0	18.8
					149.46 X					
					151.09					
2	Drain Bottom Slab Concrete	M20	08/02/2020	15/02/2020	149.43 X	22364	8.057	423.4	18.9	
					149.67 X					
					151.63					
3	Drain Bottom Slab Concrete	M20	08/02/2020	15/02/2020	149.65 X	22515	8.890	415.7	18.5	
					150.45 X					
					150.33					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 Date: 07/03/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	08/02/2020	07/03/2020	151.05 X 150.83 X 151.27	22783	8.243	530.6	23.3	23.3
2	Drain Bottom Slab Concrete	M20	08/02/2020	07/03/2020	150.12 X 149.93 X 149.94	22508	8.173	510.6	22.7	
3	Drain Bottom Slab Concrete	M20	08/02/2020	07/03/2020	151.31 X 150.01 X 151.50	22697	8.377	541.4	23.9	

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Lab ID : CP-2020-08-20-45 **Date:** 15/02/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	08/02/2020	15/02/2020	150.53 X 149.01 X 149.71	22431	8.328	414.3	18.5	18.4
2	Drain Bottom Slab Concrete	M20	08/02/2020	15/02/2020	149.66 X 149.95 X 149.50	22441	8.057	413.7	18.4	
3	Drain Bottom Slab Concrete	M20	08/02/2020	15/02/2020	149.70 X 151.69 X 150.54	22708	8.890	416.5	18.3	

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, BBMP
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 Date: 07/03/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-02-20
Customer ID : Drain Bottom Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 07/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	08/02/2020	07/03/2020	151.89 X 150.75 X 149.32	22898	8.243	529.0	23.1	23.1
2	Drain Bottom Slab Concrete	M20	08/02/2020	07/03/2020	151.99 X 149.08 X 150.38	22658	8.173	513.0	22.6	
3	Drain Bottom Slab Concrete	M20	08/02/2020	07/03/2020	150.43 X 149.24 X 150.27	22451	8.377	527.1	23.5	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 **Date:** 15/02/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	08/02/2020	15/02/2020	151.05 X 150.18 X 151.40	22684	8.328	419.0	18.5	18.5
2	Drain Bottom Slab Concrete	M20	08/02/2020	15/02/2020	149.00 X 151.71 X 150.86	22605	8.057	412.6	18.3	
3	Drain Bottom Slab Concrete	M20	08/02/2020	15/02/2020	150.19 X 150.41 X 149.96	22589	8.890	422.7	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 **Date:** 07/03/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-02-20
Customer ID : Drain Bottom Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 07/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	08/02/2020	07/03/2020	151.73 X	22783	8.243	540.0	23.7	23.3
					150.15 X					
					150.32					
2	Drain Bottom Slab Concrete	M20	08/02/2020	07/03/2020	149.82 X	22716	8.173	517.8	22.8	
					151.62 X					
					151.99					
3	Drain Bottom Slab Concrete	M20	08/02/2020	07/03/2020	149.46 X	22279	8.377	520.1	23.3	
					149.06 X					
					149.96					

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 **Date:** 18/02/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	11/02/2020	18/02/2020	150.46 X	22704	8.328	426.6	18.8	18.4
					150.89 X					
					151.19					
2	Drain Side Wall Concrete	M20	11/02/2020	18/02/2020	150.85 X	22511	8.057	408.7	18.2	
					149.22 X					
					150.89					
3	Drain Side Wall Concrete	M20	11/02/2020	18/02/2020	150.51 X	22591	8.890	410.2	18.2	
					150.09 X					
					151.02					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 **Date:** 10/03/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-02-20
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	11/02/2020	10/03/2020	151.65 X	22726	8.243	537.2	23.6	23.1
					149.86 X					
					151.13					
2	Drain Side Wall Concrete	M20	11/02/2020	10/03/2020	151.85 X	22784	8.173	512.4	22.5	
					150.04 X					
					151.33					
3	Drain Side Wall Concrete	M20	11/02/2020	10/03/2020	150.55 X	22804	8.377	529.6	23.2	
					151.47 X					
					151.82					

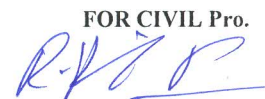
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 Date: 18/02/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	11/02/2020	18/02/2020	150.84 X	22803	8.328	415.0	18.2	18.4
					151.17 X					
					151.72					
2	Drain Side Wall Concrete	M20	11/02/2020	18/02/2020	150.37 X	22407	8.057	414.9	18.5	
					149.02 X					
					151.06					
3	Drain Side Wall Concrete	M20	11/02/2020	18/02/2020	149.02 X	22448	8.890	416.3	18.5	
					150.64 X					
					150.14					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 Date: 10/03/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	11/02/2020	10/03/2020	149.26 X	22680	8.243	521.8	23.0	22.9
					151.95 X					
					151.10					
2	Drain Side Wall Concrete	M20	11/02/2020	10/03/2020	150.74 X	22551	8.173	503.6	22.3	
					149.60 X					
					150.20					
3	Drain Side Wall Concrete	M20	11/02/2020	10/03/2020	151.86 X	22958	8.377	538.8	23.5	
					151.18 X					
					151.62					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 Date: 24/02/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-02-20
Customer ID : Drain Deck Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 24/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Deck Slab Concrete	M20	17/02/2020	24/02/2020	151.26 X	22752	8.328	427.6	18.8	18.6
					150.42 X					
					149.99					
2	Drain Deck Slab Concrete	M20	17/02/2020	24/02/2020	149.53 X	22387	8.057	404.0	18.0	
					149.71 X					
					149.13					
3	Drain Deck Slab Concrete	M20	17/02/2020	24/02/2020	150.11 X	22411	8.890	423.7	18.9	
					149.29 X					
					151.32					

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 Date: 16/03/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-02-20

Customer ID : Drain Deck Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Deck Slab Concrete	M20	17/02/2020	16/03/2020	151.96 X	22968	8.243	542.4	23.6	23.2
					151.15 X					
					151.34					
2	Drain Deck Slab Concrete	M20	17/02/2020	16/03/2020	150.92 X	22774	8.173	502.9	22.1	
					150.89 X					
					151.99					
3	Drain Deck Slab Concrete	M20	17/02/2020	16/03/2020	151.84 X	22775	8.377	546.0	24.0	
					150.00 X					
					149.28					

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 Date: 24/02/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-02-20
Customer ID : Drain Deck Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 24/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Deck Slab Concrete	M20	17/02/2020	24/02/2020	151.10 X 149.26 X 150.22	22553	8.328	426.2	18.9	18.8
2	Drain Deck Slab Concrete	M20	17/02/2020	24/02/2020	149.08 X 149.18 X 151.91	22239	8.057	420.4	18.9	
3	Drain Deck Slab Concrete	M20	17/02/2020	24/02/2020	151.15 X 151.35 X 151.76	22876	8.890	428.3	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2020-08-20-45 Date: 16/03/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli

Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/193/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-02-20

Customer ID : Drain Deck Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Deck Slab Concrete	M20	17/02/2020	16/03/2020	150.46 X 151.81 X 151.91	22842	8.243	547.9	24.0	23.3
2	Drain Deck Slab Concrete	M20	17/02/2020	16/03/2020	149.69 X 151.08 X 151.28	22614	8.173	513.3	22.7	
3	Drain Deck Slab Concrete	M20	17/02/2020	16/03/2020	149.75 X 149.86 X 150.93	22441	8.377	522.0	23.3	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 **Date:** 24/02/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-02-20
Customer ID : Drain Deck Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 24/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Deck Slab Concrete	M20	17/02/2020	24/02/2020	151.47 X 150.96 X 149.61	22866	8.328	415.6	18.2	18.3
2	Drain Deck Slab Concrete	M20	17/02/2020	24/02/2020	150.59 X 149.27 X 151.03	22479	8.057	412.6	18.4	
3	Drain Deck Slab Concrete	M20	17/02/2020	24/02/2020	150.47 X 149.44 X 149.30	22485	8.890	410.9	18.3	

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka 2nd Block, BBMP,
Bangalore.



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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-45 Date: 16/03/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Drains at Maruthinagara and Bhadrappa Layout in Ward No 08 Kodigehalli
Agency : Sri. N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/VO/193/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-02-20
Customer ID : Drain Deck Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 16/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Deck Slab Concrete	M20	17/02/2020	16/03/2020	149.05 X 149.14 X 149.61	22230	8.243	517.3	23.3	23.0
2	Drain Deck Slab Concrete	M20	17/02/2020	16/03/2020	150.64 X 151.53 X 150.35	22826	8.173	519.7	22.8	
3	Drain Deck Slab Concrete	M20	17/02/2020	16/03/2020	151.64 X 151.11 X 150.31	22913	8.377	527.8	23.0	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Assistant Executive Engineer,
Kodigehalli Sub Division,
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Bangalore.

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****End of Report****



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